

Summary

A method of using the Earth mantle substance for hydrogen production. Area of application is production of cheap and efficient energy resources, in particular, a fuel for internal-combustion engine. The substance of invention is an exploration of continental and oceanic rifting areas, supported by abnormal mantle diapirs with the mantle substance fingers outlet into the Earth's crust. The mantle substance wells drilling with help of turbodrills. A reaction cavity can be formed by injection and production wells linkage and/or production wells reaming after the well inlet into the mantle substance. The water is supplied into the injection well, and hydrogen gas, produced in reaction of water with intermetallic compounds, contained in the mantle substance, is brought to the surface by the production well.